5   **Claims**

What is claimed:

10   1. E-commerce system specifications for defining product
        specifications with or without option variable questions via a XSD
        file. The XSD file (or other DTD files) defined as following:

        1. a) Title of data input for each of the XSD elements see **FIG. 3**
15   line 11 <title>1. Width Inches …or $77.50 apply </title>(1)

        1. b) More information links see **FIG. 3** line 16
        <helpURL>./MoreInfo/M2specsXML339950-2201-001.html#width</helpURL>
        (1)
20
        1. c) The width of the screen for 1 b) See **FIG. 3** Line 17
        <helpwidth>700</helpwidth>(1)

        1. d) The height of the screen for 1 b) See **FIG. 3** Line 18
25   <helpheight>350</helpheight> (1)

        1. e) The title of the screen for 1 b) See FIG. 3 Line 19
        <helptitle>More Info For 1. Width Window Inches </helptitle>

30   1. f) Format ability of Displaying the prompt Question, input, &
        more information link on the following conditions See **FIG. 3** line
        20 <prompt>NewLine</prompt>(1) :
                1. All on the same line is default.
                2. Multiple elements on the same line =
35   <prompt>SameLine</prompt>(1)
                3. The prompt is on one line and input / more information
                   link on the next line = <prompt>NewLine</prompt>(1)
                4. The ability for a system parameter to specify
                   percentages of the line each component will occupy for
40   1. a) & 1. b)
                        <!--
                        The "40:60/40:50:10" notation means 'if there is no
                        more info, make a 40% prompt and 60% option;
                        if there *is* a more info link, make a 40% prompt,
45   then 50% option, then 10% more info'. Similarly for
                        the same line case, where there are four/five
                        numbers instead of two/three, because there are two
                        prompt/options on a line, and for the NewLine case,
                        when there is no width for the prompt string, just
50   for the option (and possibly the more info link)
                        -->

```
                <add key="PSC_ColSpan_Normal" value="50:50/40:50:10" />
                <add key="PSC_ColSpan_SameLine"
value="25:25:25:25/20:25:20:25:10" />
                <add key="PSC_ColSpan_NewLine" value="100/90:10" />
```

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1. g) Type of data input errors occur see **FIG. 3** Line 37
`<xs:restriction base="xs:integer">`(1)   Other types are string,
decimal, & any allowed type in XSD

10   1. h) Edit rules allowed on the answer:
    1. Low = see **FIG. 4** Line 38 `<xs:minInclusive value="6" />` (1)
    2. Max = see **FIG. 4** Line 43 `<xs:maxInclusive value="6" />` (1)
    3. High = `<xs:maxLength value="25" />` (1)
    4. Patern = `<xs:pattern value="[0-9]+(\.[0-9]+)?" />`(1)
15   5. Any allowed type in XSD

1. i) Error message words if input errors occur see **FIG. 3** Line 15
`<errormessage>`1. Width Must be Minimum 6, no Max. `</errormessage>`
(1) .
20

1. j) Parameter to indicate if the price of an options drop down
is displayed see **FIG. 4** Line 49 `<display-price>`True`</display-price>`(1)

25   2.   The method of claim 1 wherein that by repeating the elements
to achieve unlimited elements option specifications product option
questions.

30   3.   The method of claim 1 wherein that option selections will have
user definable cross checking between options selections.

The option selections will have user definable cross checking
between options selections. See **FIG. 3** Line 12-14 `<relations>`
35   `<exact element="CouponID" value="psc#1"`
errormessage=" 12. Your coupon ID is not valid " />
                `</relations>`

Type: Six 6 allow types

minInclusive - a low boundary limit which may be reached

40   The minInclusive element is used to specify a minimum valid value
for another element of the XML document. This applies to both
numeric values and enumerations; in the latter case, the
acceptable range is the specified value and all following it in
the definition of the enumeration.

45   **minExclusive - a low boundary limit which may not be reached**

The minExclusive element is used to specify a minimum value for
another element of the XML document, but the value specified is

NOT acceptable. This applies to both numeric values and enumerations; in the latter case, the acceptable range consists of all values following the specified one in the definition of the enumeration

5   **maxInclusive - a high boundary limit which may be reached**

The maxInclusive element is used to specify a maximum valid value for another element of the XML document. This applies to both numeric values and enumerations; in the latter case, the acceptable range is the specified value and all preceding it in
10 the definition of the enumeration.

maxExclusive - a high boundary limit which may not be reached

The maxExclusive element is used to specify a maximum value for another element of the XML document, but the value specified is NOT acceptable. This applies to both numeric values and
15 enumerations; in the latter case, the acceptable range consists of all values preceding the specified one in the definition of the enumeration.

exact - an exact value

The exact element is used to specify an exact value for another
20 element of the XML document. This applies to all non-composite XSD types: numeric types, strings, and enumerations.

pattern - a regular expression pattern match

The pattern element is used to specify a regular expression pattern that another element of the XML document should match.
25 This applies to all XSD types derived from the string type.

4.   E-commerce system specifications for defining product specifications Via XSL file the ability to define; math to compute fields back into the e-commerce product -

4. a) Selling price see **FIG. 8** Line 23, 30 thru line 32
30 `<price><xsl:value-of select="$FinalPriceMin " /> </price>`(2)

4. b) Shipping cost see **FIG. 8** Line 28, 33 thru line 35 `<freight type="Shipping is    Selected mode in $persqft "> </freight>`(2)

    `<xsl:value-of select="$FinalShipMin" /></freight>`

4. c) Sales tax see **FIG. 8** Line 36 thru 38 `<xsl:value-of`
35 `select="($SalesTax_price div 100) * $FinalPriceMin * $productqty" /> </tax>` (2)

4. d) Other fields **FIG. 8** Line 22 `<xsl:variable name="productDiscount" select=" $basePrice - ($basePrice * $productqtyDiscount) " />` (2)

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5. **File upload**: The input allows for the location of a local computer file to be uploaded to the server to a designated location.

Upload URL: Location on the web server directory or ftp or to your
5   printer if your printer supports ftp. Example

c:/webhost4life aspnet/sriflcom/www_devstore/InputProductImages/
or ftp   ftp://PSCFTPData:LogOnID@ftp.srifl.com/DataPath/

Upload temp URL: The temp directory is specified as to where the
file is placed until final check then it is put in the next
10   location. Example c:/webhost4life
aspnet/sriflcom/www_devstore/InputProductImages/temp

6. Indication of an element being a SVG type see **FIG. 3** Line 28
<isSVGFile>true</isSVGFile> (1). In **FIG. 7** is an example of what
15   can be achieved. The novel aspect in this invention is the
integrated pricing ability, real time design ability, and saving
the results in a single database table.

7. Order final checkout will NOT occur until update cart has been
successfully completed without any errors for processing
20   integrity.

8. Each option is contained in an element definitions for
standalone and for the Portal access additional subset
<xs:annotation> within each element of the e-commerce system.
The Portal will allow prospects to select by the subset options
25   without forcing in house namespace labels as shown in **FIG. 11**
field 1103.

9. A system defined allowed number of suppliers can be selected to
provide quotes via Web Services.

10. The returned quoted price is displayed to the prospect with
30   the ability to select the supplier and award the contract.

11. The prospect continues on to the awarded supplier's e-commerce
site for completion of credit processing information to consummate
the commerce transaction.

12. The portal will retain history information of the
35   transactions.

(1) The XSD file name indicated is a given implementation of just
one example and any other applicable file name can be used in
other implementation such as DTD.

(2) The XSL style sheet indicated is a given implementation of
40   just one example and any other applicable file name can be used in
other implementation.